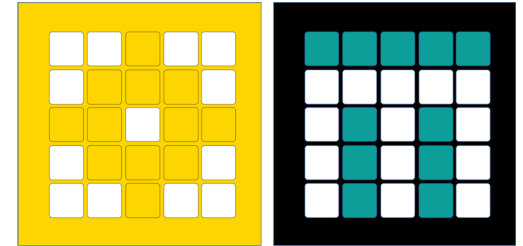


PRIME LESSONS

By the Makers of EV3Lessons



PLAYING SOUND

BY SANJAY AND ARVIND SESHAN

This lesson uses SPIKE 3 software

LESSON OBJECTIVES

Learn how to use the hub sound functions to play sounds

SPEAKER FUNCTIONS

Used to play beeps out of the Hub.

You can set the volume of beeps

```
sound.volume(volume)
```

0-100

You can play a note of your choice for a particular duration. It is **asynchronous**, so use **await** if you want to wait.

```
await sound.beep(frequency=440, duration=500, volume= 100, ...)
```

Frequency

Duration of beep in

ms

(default value: 500)

This function has a lot of parameters. You can find details in the Knowledge Base.

You can stop all noise from the hub by calling

```
sound.stop()
```

CHALLENGE AND SAMPLE SOLUTION

Set the speaker volume to 75%

Compose a short piece of music with 4 notes

Play it 4 times

```
from hub import sound
import runloop, sys
```

```
async def main():
    sound.volume(75)
    for i in range (4):
        await sound.beep(400, 250)
        await sound.beep(600, 250)
        await sound.beep(800, 250)
        await sound.beep(1000, 250)
    sys.exit("Done")
```

```
runloop.run(main())
```

CREDITS

This lesson was created by Arvind and Sanjay Seshan for Prime Lessons

Additional contributions by FLL Share & Learn community members

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